



# **STIC Search Report**

## **EIC 3700**

**STIC Database Tracking Number: 97970**

**TO: Linda Sholl**  
**Location: pk1 5d11**  
**Art Unit: 3700**  
**Wednesday, July 02, 2003**

**Case Serial Number: 09/930572**

**From: Terry Solomon**  
**Location: EIC 3700**  
**CP2-2C08**  
**Phone: 305-5932**

**Terrance.solomon@uspto.gov**

### **Search Notes**

No litigation found.

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6112767

September 5, 2000

Chromatography valve assembly

REISSUE: August 15, 2001 - Reissue Application filed Ex. Gp.: 3753; Re. S.N. 09/930,572 (O.G. December 31, 2002)

APPL-NO: 311520 (00)

FILED-DATE: May 13, 1999

GRANTED-DATE: September 5, 2000

Selected file: PLUSPAT

**\*\* SS 1: Results 1**

1 / 1 PLUSPAT - @QUESTEL-ORBIT  
PN - US6112767 A 20000905 [US6112767]  
TI - (A) Chromatography valve assembly  
PA - (A) ITT (US)  
PAO - ITT Industries, Inc., White Plains NY [US]  
IN - (A) PINKHAM LOUIS V (US)  
AP - US31152099 19990513 [1999US-0311520]  
FD - Cont. of US715286 19960916 [1996US-0715286]  
Continuation of: US5906223  
PR - US31152099 19990513 [1999US-0311520]  
US71528696 19960916 [1996US-0715286]  
IC - (A) F16K-011/20  
EC - F16K-011/22  
F16K-027/00B  
IDT - 123US  
PCL - ORIGINAL (O) : 137597000; CROSS-REFERENCE (X) : 137599110  
DT - Basic  
CT - US2209024; US2865402; US4655095; US5906223  
STG - (A) United States patent  
AB - A unitarily formed diverter valve assembly for use in liquid chromatography. The valve assembly comprises a plurality of inlet and outlet ports, diverter valve systems, chambers, and a tortuous network of passageways all of which are arranged to accommodate the flow of fluids in a liquid chromatography system. The valve assembly is configured so as to direct the flow of fluid coming from an inlet port through the valve body where it can then be reversibly directed into or out of a chromatography column. On returning from the column, the fluid reenters the valve assembly where it is directed to an outlet port in order to exit the system. The valve assembly can also be configured so as to bypass the column altogether. Since the entire valve assembly is machined out of a single block of material having smooth liquid passageways, and since all flow compartments are shared and fully flushed when a flow-through valve is opened, dead-legs are virtually eliminated from the system.  
UP - 2000-35

1 / 1 LGST - @LEGSTAT  
PN - US 6112767 [US6112767]  
AP - US 311520/99 19990513 [1999US-0311520]  
DT - US-P  
ACT - 19990513 US/AE-A  
APPLICATION DATA (PATENT)  
US 311520/99 19990513 [1999US-0311520]  
  
20000905 US/A  
PATENT  
  
20021231 US/RF  
REISSUE APPLICATION FILED  
20010815  
UP - 2003-04

1 / 1 CRXX - @CLAIMS/RRX  
PN - 6,112,767 A 20000905 [US6112767]

PA - ITT Industries Inc  
ACT - 20010815 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20021231  
REISSUE REQUEST NUMBER: 09/930572  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3753

Reissue Patent Number:

Selected file: INPADO

**\*\* SS 1: Results 7**

1 / 7 INPADO - @INPADO  
PN - AU 687715 B1 19980226 [AU-687715]  
TI - CHROMATOGRAPHY VALVE ASSEMBLY  
IN - PINKHAM LOUIS V  
PA - ITT  
AP - AU 37573/97-A 19970915 [1997AU-0037573]  
PR - US 715286/96-A 19960916 [1996US-0715286]  
IC - F16K-011/20; F16K-017/20

2 / 7 INPADO - @INPADO  
PN - BR 9703655 A 19981110 [BR9703655]  
TI - CONJUNTO DE VALVULAS DE CROMATOGRAFIA  
IN - PINKHAM LOUIS V  
PA - ITT [US]  
AP - BR 9703655/97-A 19970729 [1997BR-0003655]  
PR - US 715286/96-A 19960916 [1996US-0715286]  
IC - F16K-011/00

1 / 1 LEGALI - @LEGSTAT  
PN - BR 9703655 [BR9703655]  
DT - BR-P  
ACTE- 20011127 BR/FF [+] INTENTION TO GRANT  
20020416 BR/FG9A [+] PATENT OR CERTIFICATE OF ADDITION GRANTED  
UP - 2002-19

3 / 7 INPADO - @INPADO  
PN - CA 2215554 C 20020205 [CA2215554]  
TI - CHROMATOGRAPHY VALVE ASSEMBLY  
LA - ENG  
IN - PINKHAM LOUIS V [US]  
PA - ITT [US]  
AP - CA 2215554/97-A 19970915 [1997CA-2215554]  
PR - US 715286/96-A 19960916 [1996US-0715286]  
IC - G01N-030/02; F16K-011/22; G01N-030/44

4 / 7 INPADO - @INPADO  
PN - CA 2215554 AA 19980316 [CA2215554]

TI - CHROMATOGRAPHY VALVE ASSEMBLY  
 LA - ENG  
 IN - PINKHAM LOUIS V [US]  
 PA - ITT [US]  
 AP - CA 2215554/97-A 19970915 [1997CA-2215554]  
 PR - US 715286/96-A 19960916 [1996US-0715286]  
 IC - G01N-030/02; F16K-011/22; G01N-030/44

5 / 7 INPADOC - @INPADOC  
 PN - EP 829716 A1 19980318 [EP-829716]  
 TI - CHROMATOGRAPHY VALVE ASSEMBLY  
 LA - ENG  
 IN - PINKHAM LOUIS V [US]  
 PA - ITT MFG ENTERPRISES INC [US]  
 AP - EP 97850114/97-A 19970715 [1997EP-0850114]  
 PR - US 715286/96-A 19960916 [1996US-0715286]  
 IC - G01N-030/20; F16K-011/22; F16K-027/00  
 DS - AT\* BE\* CH\* DE\* DK\* ES\* FR\* GB\* IE\* IT\* LI\* NL\* SE\*

1 / 1 LEGALI - @LEGSTAT  
 PN - EP 829716 [EP-829716]  
 AP - EP 97850114/97 19970715 [1997EP-0850114]  
 DT - EP-P  
 ACTE- 19970715 EP/AE-A  
 EP-APPLICATION  
 EP 97850114/97 19970715 [1997EP-0850114]

19980318 EP/AK-A1 [+]  
 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH  
 REPORT:  
 AT BE CH DE DK ES FR GB IE IT LI NL SE

19980318 EP/A1 [+]  
 PUBLICATION OF APPLICATION WITH SEARCH REPORT

19980624 EP/17P [+]  
 REQUEST FOR EXAMINATION FILED  
 980416

19981202 EP/AKX [+]  
 PAYMENT OF DESIGNATION FEES  
 AT BE CH DE DK ES FR GB IE IT LI NL SE

19981202 EP/RBV [+]  
 DESIGNATED CONTRACTING STATES (CORRECTION):  
 AT BE CH DE DK ES FR GB IE IT LI NL SE

20010829 EP/17Q [+]  
 FIRST EXAMINATION REPORT  
 20010716

UP - 2001-35

6 / 7 INPADOC - @INPADOC  
 PN - US 6112767 A 20000905 [US6112767]  
 TI - CHROMATOGRAPHY VALVE ASSEMBLY  
 IN - PINKHAM LOUIS V [US]  
 PA - ITT [US]

AP - US 311520/99-A 19990513 [1999US-0311520]  
PR - US 311520/99-A 19990513 [1999US-0311520]  
US 715286/96-A1 19960916 [1996US-0715286]  
IC - F16K-011/20

1 / 1 LEGALI - @LEGSTAT  
PN - US 6112767 [US6112767]  
AP - US 311520/99 19990513 [1999US-0311520]  
DT - US-P  
ACTE- 19990513 US/AE-A  
APPLICATION DATA (PATENT)  
US 311520/99 19990513 [1999US-0311520]

20000905 US/A  
PATENT

20021231 US/RF  
REISSUE APPLICATION FILED  
20010815

UP - 2003-04

7 / 7 INPADOC - @INPADOC  
PN - US 5906223 A 19990525 [US5906223]  
TI - CHROMATOGRAPHY VALVE ASSEMBLY  
IN - PINKHAM LOUIS V [US]  
PA - ITT [US]  
AP - US 715286/96-A 19960916 [1996US-0715286]  
PR - US 715286/96-A 19960916 [1996US-0715286]  
IC - F16K-011/20

1 / 1 LEGALI - @LEGSTAT  
PN - US 5906223 [US5906223]  
AP - US 715286/96 19960916 [1996US-0715286]  
DT - US-P  
ACTE- 19960916 US/AE-A  
APPLICATION DATA (PATENT)  
US 715286/96 19960916 [1996US-0715286]

19960916 US/AS02  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
ITT INDUSTRIES, INC. 4 WST OAK LANE WHITE PLAINS, NEW YORK 10604 \*  
PINKHAM, L. : 19960910

19990525 US/A  
PATENT

20011023 US/RF  
REISSUE APPLICATION FILED  
20010815

UP - 2001-44

Session finished: 02 JUL 2003 Time 19:02:22